1	Amendments to the Claims - All Claims are set forth in accordance
2	with the new Response Format.
3	Claims 1-29 were cancelled in previous papers.
4	Claim 30-42 are pending
5	Please cancel claims 30-32.
6	Claims 33 and 36 are amended.
7	30. (Cancelled)
8	31. (Cancelled)
9	32. (Cancelled)
10	
11	33. (Currently amended) A waste liquid treatment system of claim 32 further
12	comprising: A waste liquid treatment system comprising the following:
13	A. a media matrix (1) comprised of at least one inner core (70) received into at
14	least one tube (20):
15	B. the media matrix (1) received into a media matrix container (250) having
16	wastewater inlet (350) and discharge means (400).
17	C. the media matrix (1) is comprised of a plurality of tubes (20) each sized to
18	receive at least one clongated inner core (70);
19	D. the at least one inner core (70) has a top (75), a bottom (80) and a length (85);
20	E. the tube (20) having a tube top (25), tube bottom (30) and tube length (35) and
21	a tube axis (37); the tube axis (37) centrally positioned from the tube top (25) to the tube
22	bottom (30) and extending throughout the tube length (35) of each tube (20);
23	F. the inner core (70) having at least one vane (90);
24	G. the at least one vane (90) extending from a central core element (95) where the
25	central core element (95) coincides with the tube axis (25).
26	
27	OFFICIAL RESPONSE Certificate of facsimile
28	filing, Application No. 09/041,685 on September 7, 200//by Floyd E. Ivey in response
	to Office Action of June 4, 2004
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1	H. the inner core (70) having a plurality of vanes (90); the central core element
2	(95) of at least one inner core (70) parallel with the central core element (95) of other at
3	least one inner core (70);
4	I. the tube length (35) generally less than the inner core length (85).
5	<u>J.[A]</u> . the tube (20) having an inner wall (140) where at least one groove (150) is
6	formed in the inner wall (140); said at least one groove (150) sized to receive at least one
7	vane (90);
8	K [B]. the at least one groove (150) receives and restrains at least one vane (90)
9	of comprising vane (90) restraining means securing the at least one inner core (70) in a
10	fixed position within said tube (20);
11	L_[C]. the tube (20) having an outer wall (190) having at least one fin (200)
12	extending outwardly therefrom.
13	
14	34. (Original) A waste liquid treatment system of claim 33 further comprising:
15	A. the tube (20) receiving at least one inner core (70) may be positioned at any
16	location along the inner core length (85);
17	B. the at least one inner core (70) having at least eight vanes (90).
18	
19	35. (Original) A waste liquid treatment system of claim 34 further comprising:
20	A. of the at least one vane (70) received into the at least one depression or at least
21	one groove (150) at a vane tip (98).
22	B. groove walls (155) extending from the inner wall (140) forming the at least
23	one depression or at least one groove (150); said at least one groove (150) comprising a
24	vane tip (98) restraining means.
25	
26	
27	OFFICIAL RESPONSE Certificate of facsimile filing, Application No. 097041,685 on
28	September 7/2004 by Floyd E/Ivey in response
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1	B. at least fins 1n extending outwardly from the outer wall (190);
2	C. at least one contact points (195) comprised of flattened portion of the outer
3	wall surface (195) extending from the tube top (25) to the tube bottom (30) parallel with
4	the tube axis (37).
5	
б	40. (Original) A waste liquid treatment system of claim 39 further comprising:
7	A. said tubes (20) in the media matrix (1) may be alternatively or additionally
8	fixed in position by fin (200) affixing means employed at an intersection of fins (200) of
9	adjoining tubes (20).
10	
11	•
12	41. (Original) A waste liquid treatment system of claim 40 further comprising:
13	A. the tube inner wall (140) having an inner wall surface (142), the tube outer
14	wall (190) having an outer wall surface (192); inner wall surface (142), outer wall surface
15	(192), vane surface (92) and fin surface (210) receives biofilm (97).
16	
17	42. (Original) A waste liquid treatment system of claim 41 further comprising:
18	A. wastewater inlet (350) and discharge means (400) comprising pipes; the
19	wastewater inlet (350) directs flow of wastewater into the media matrix (1); the discharge
20	pipes (400) discharges from the media matrix container (250).
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27	OFFICIAL RESPONSE Certificate of facsimile
28	filing, Application No. 09/041,685 on September 7, 2004 by Floyd B. Ivey in response
•	to Office Action of June 4, 4004.